

Substitution for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/606,031
Sheet 1 of 4				Filing Date	June 25, 2003
				First Named Inventor	Paul Master
				Art Unit	2622
				Examiner Name	Nelson D. Hernandez
				Attorney Docket Number	046301/101000

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/NDHH/ ↓	1.	US 4,380,046	04-12-1983	Fung	
	2.	US 4,649,512	03-10-1987	Nukiyama	
	3.	US 4,758,985	07-19-1988	Carter	
	4.	US 4,870,302	09-26-1989	Freeman	
	5.	US 4,899,149	02-06-1990	Kahan	
	6.	US 4,905,231	02-27-1990	Leung et al.	
	7.	US 5,099,418	03-24-1992	Pian et al.	
	8.	US 5,144,166	09-01-1992	Camarota et al.	
	9.	US 5,165,023	11-17-1992	Gifford	
	10.	US 5,218,240	06-08-1993	Camarota et al.	
	11.	US 5,245,227	09-14-1993	Furtek et al.	
	12.	US 5,253,192	10-12-1993	Tufts	
	13.	US 5,336,950	08-09-1994	Popli et al.	
	14.	US 5,388,062	02-07-1995	Knutson	
	15.	US 5,428,754	06-27-1995	Baldwin	
	16.	US 5,475,856	12-12-1995	Kogge	
	17.	US 5,623,423	04-22-1997	Lipovski	
	18.	US 5,701,398	12-23-1997	Glier et al.	
	19.	US 5,729,754	03-17-1998	Estes	
	20.	US 5,737,631	04-07-1998	Trimberger	
	21.	US 5,748,688	05-05-1998	Kim et al.	
	22.	US 5,748,790	05-05-1998	Golin	
	23.	US 5,771,362	06-23-1998	Bartkowiak et al.	
	24.	US 5,781,135	07-14-1998	Kim et al.	
	25.	US 5,784,699	07-21-1998	McMahon et al.	
	26.	US 5,796,957	08-18-1998	Yamamoto et al.	
	27.	US 5,802,278	09-01-1998	Isfeld et al.	
	28.	US 5,808,570	09-15-1998	Bakhmutsky	
	29.	US 5,821,886	10-13-1998	Son	
	30.	US 5,838,894	11-17-1998	Horst	
	31.	US 5,892,962	04-06-1999	Cloutier	
	32.	US 5,903,674	05-11-1999	Ooi	
	33.	US 5,949,356	09-07-1999	Kim et al.	
	34.	US 5,987,637	11-16-1999	Thomas	
	35.	US 6,018,783	01-25-2000	Chiang	
	36.	US 6,094,739	07-25-2000	Miller et al.	
	37.	US 6,119,178	09-12-2000	Martin et al.	
	38.	US 6,128,307	10-03-2000	Brown	
	39.	US 6,134,605	10-17-2000	Hudson et al.	


Examiner Signature	/Nelson D. Hernandez/	Date Considered	07/29/2009
--------------------	-----------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/606,031
				Filing Date	June 25, 2003
				First Named Inventor	Paul Master
				Art Unit	2622
				Examiner Name	Nelson D. Hernandez
Sheet	2	of	4	Attorney Docket Number	046301/101000

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)				
/NDHH/	40.	US 6,134,629		10-17-2000	L'Ecuyer	
	41.	US 6,154,492		11-28-2000	Araki et al.	
	42.	US 6,173,389	B1	01-09-2001	Pechanek et al.	
	43.	US 6,202,189	B1	03-13-2001	Hinedi et al.	
	44.	US 6,272,616	B1	08-07-2001	Fernando et al.	
	45.	US 6,295,089	B1	09-25-2001	Hoang	
	46.	US 6,326,806	B1	12-04-2001	Fallside et al.	
	47.	US 6,381,293	B1	04-30-2002	Lee et al.	
	48.	US 6,404,815	B1	06-11-2002	Sekiguchi et al.	
	49.	US 6,426,649	B1	07-30-2002	Fu et al.	
	50.	US 6,467,009	B1	10-15-2000	Winegarden et al.	
	51.	US 6,469,540	B2	10-22-2002	Nakaya	
	52.	US 6,483,343	B1	11-19-2002	Faith et al.	
	53.	US 6,487,574	B1	11-26-2002	Malvar	
	54.	US 6,587,590	B1	07-01-2003	Pan	
	55.	US 6,604,189	B1	08-05-2003	Zemlyak et al.	
	56.	US 6,611,908	B1	08-26-2003	McAllister et al.	
	57.	US 6,618,777	B1	09-09-2003	Greenfield	
	58.	US 6,647,429	B1	11-11-2003	Semal	
	59.	US 6,675,284	B1	01-06-2004	Warren	
	60.	US 6,684,319	B1	01-27-2004	Mohamed et al.	
	61.	US 6,694,380	B1	02-17-2004	Wolrich et al.	
	62.	US 6,751,723	B1	06-15-2004	Kundu et al.	
	63.	US 6,760,833	B1	07-06-2004	Dowling	
	64.	US 6,807,590	B1	10-19-2004	Carlson et al.	
	65.	US 6,859,434	B2	02-22-2005	Segal et al.	
	66.	US 6,883,074	B2	04-19-2005	Lee et al.	
	67.	US 6,901,118	B2	05-31-2005	Hocevar et al.	
	68.	US 6,907,598	B2	06-14-2005	Fraser	
	69.	US 6,941,336	B1	09-06-2005	Mar	
	70.	US 6,980,515	B1	12-27-2005	Schunk et al.	
	71.	US 6,986,142	B1	01-10-2006	Ehlig et al.	
	72.	US 7,035,356	B1	04-25-2006	Langhammer	
	/NDHH/	73.	US 7,103,226	B1	09-05-2006	Frank et al.

## U.S. PUBLISHED PATENT DOCUMENTS

Examiner Signature	/Nelson D. Hernandez/	Date Considered	07/29/2009
--------------------	-----------------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
				Application Number	10/606,031	
Sheet		3	of	4	Filing Date	June 25, 2003
					First Named Inventor	Paul Master
					Art Unit	2622
					Examiner Name	Nelson D. Hernandez
					Attorney Docket Number	046301/101000

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/NDHH/	74.	US 2002/0133688 A1	09-19-2002	Lee et al.	
↓	75.	US 2002/0184275 A1	12-05-2002	Dutta et al.	
	76.	US 2003/0074473 A1	04-17-2003	Pham et al.	
	77.	US 2003/0131162 A1	07-10-2003	Secatch et al.	
	78.	US 2003/0229864 A1	12-11-2003	Watkins	
	79.	US 2004/0064781 A1	04-01-2004	Kamada	
	80.	US 2004/0133745 A1	07-08-2004	Ramchandran	
↓	81.	US 2004/0243916 A1	12-02-2004	Kim et al.	
	82.	US 2005/0044344 A1	02-24-2005	Stevens	
/NDHH/	83.	US 2005/0166073 A1	07-28-2005	Lee	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/NDHH/	84.	WO 00/69073 A1	11-16-2000	Wasson		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/NDHH/	85.	Altera Apex 20K 1999	
↓	86.	Andraka Consulting Group, "Distributed Arithmetic," Obtained from: <a href="http://www.fpga-guru.com/distribu.htm">http://www.fpga-guru.com/distribu.htm</a> (1998-2000)	
	87.	Computer Organization and Design 2 <sup>nd</sup> Edition, Hennessy, Morgan Kaufmann Publishers, pp. 569–70 (1998)	
	88.	Free On-Line Dictionary of Computing. ©1995-2000 <a href="http://www.foldoc.org">www.foldoc.org</a> search terms: cache, operating system, Internet, DMA, interrupt	
	89.	Hanna et al., "A Normalized Backpropagation Learning Algorithm for Multilayer Feed-Forward Neural Adaptive Filters," <i>Neural Networks for Signal Processing XI</i> , Proceedings of the 2001 IEEE Signal Processing Society Workshop pp. 63–72 (Sept 2001)	
	90.	Janweijer et al., "A Compact Robin Using the SHarc (CRUSH)," Obtained from: <a href="http://www.nikhef.nl/~peterj/Crush/CRUSH-hw.pdf">http://www.nikhef.nl/~peterj/Crush/CRUSH-hw.pdf</a> (Sept 1998)	
	91.	Rajagopalan et al., "A Flexible Multiplication Unit for an FPGA Logic Block," <i>Circuits and Systems</i> 4:546–9 (2001)	
↓	92.	Xilinx Data Book 1998	
/NDHH/	93.	Xilinx Virtex 1.1 1998	
Examiner Signature	/Nelson D. Hernandez/		Date Considered 07/29/2009

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/606,031
				Filing Date	June 25, 2003
				First Named Inventor	Paul Master
				Art Unit	2622
				Examiner Name	Nelson D. Hernandez
Sheet	4	of	4	Attorney Docket Number	046301/101000

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/NDHH/	94.	Xilinx Virtex 2.2 2000	

Examiner Signature	/Nelson D. Hernandez/	Date Considered	07/29/2009
-----------------------	-----------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.